

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/011928

A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl⁷ H01L29/06, H01L29/786

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHEDMinimum documentation searched (classification system followed by classification symbols)
Int.Cl⁷ H01L29/06, H01L29/786Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Jitsuyo Shinan Koho 1922-1996 Jitsuyo Shinan Toroku Koho 1996-2004
Kokai Jitsuyo Shinan Koho 1971-2004 Toroku Jitsuyo Shinan Koho 1994-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|--|-----------------------|
| Y | WO 2002/091490 A1 (IBM CORP.), 14 November, 2002 (14.11.02), Page 12, lines 11 to 22; Fig. 7 & JP 2004-527131 A Par. No. [0039]; Fig. 7 & EP 1390991 A1 & US 6437422 B1 | 1,3,4,5 |
| Y | JP 64-722 A (Canon Inc.), 05 January, 1989 (05.01.89), Page 8, upper right column, line 8 to page 9, upper left column, line 17; Figs. 5, 6 & EP 281335 A2 Page 7, left column, line 49 to page 8, left column, line 23; Figs. 5A, 5B, 6B & CA 1296816 A & US 4983539 A | 1,3,4,5 |

 Further documents are listed in the continuation of Box C. See patent family annex.

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| * Special categories of cited documents: | |
| "A" | document defining the general state of the art which is not considered to be of particular relevance |
| "E" | earlier application or patent but published on or after the international filing date |
| "L" | document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) |
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| "&" | document member of the same patent family |

Date of the actual completion of the international search
18 October, 2004 (18.10.04)Date of mailing of the international search report
02 November, 2004 (02.11.04)Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

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PCT/JP2004/011928

| C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT | | |
|---|--|-----------------------|
| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
| Y | JP 2002-258775 A (Matsushita Electric Industrial Co., Ltd.), 11 September, 2002 (11.09.02), Par. Nos. [0077] to [0083]; Fig. 11 (Family: none) | 4 |
| P,X | JP 2004-193437 A (Kabushiki Kaisha Idearu Suta), 08 July, 2004 (08.07.04), Par. Nos. [0078] to [0087], [0114], [0330] to [0338]; Fig. 19 & WO 2004/054004 A1 | 1-5 |